

FIGURE 1A

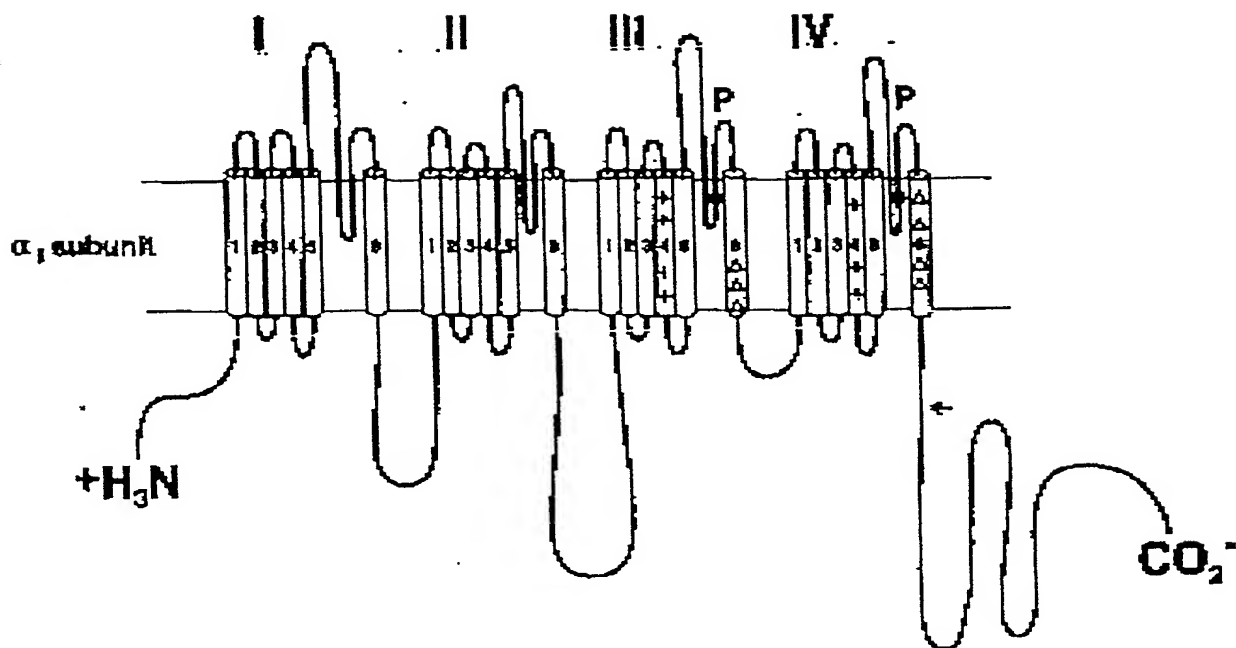


FIGURE 1B

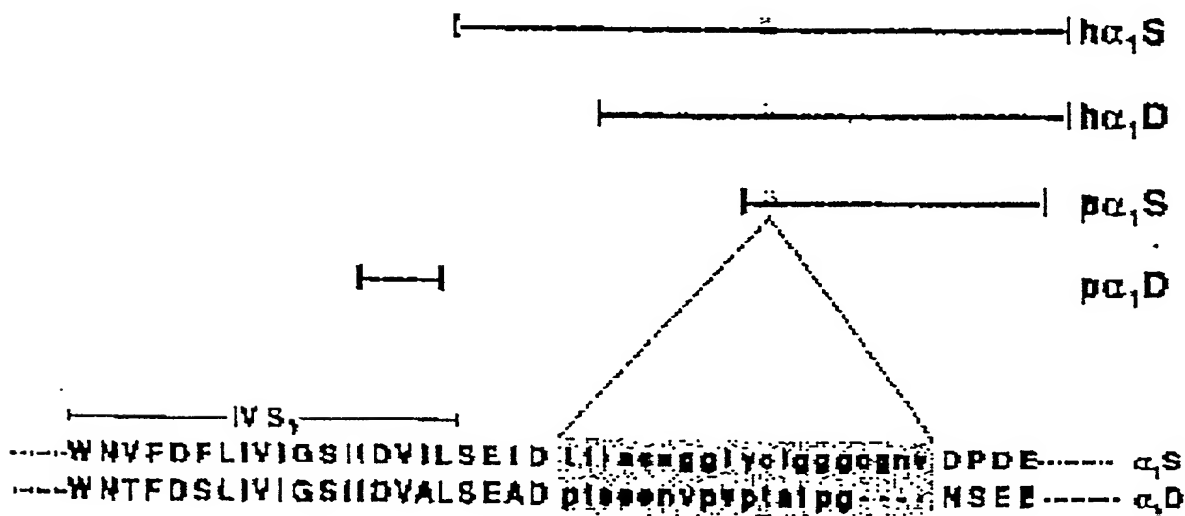


FIGURE 1C



FIGURE 1D



FIGURE 2A

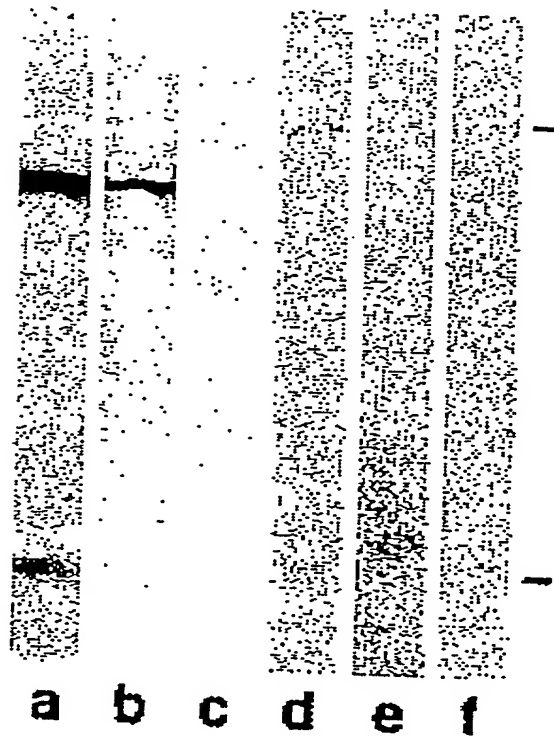


FIGURE 2B

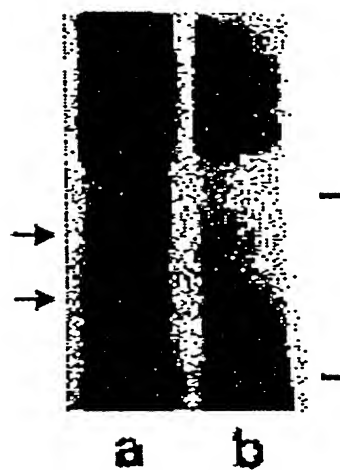


Figure 3

>ref|XM_001910.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S subunit (CACNA1S), mRNA, Length = 6615

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcggcagcatcattgacgtcatcctcagtgagatcgac 48
|||||||
Sbjct: 3938 ctgattgtcattggcagcatcattgatgtcatcctcagtgagatcgac 3985

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcccgcatctccagcgcttcttccgctgttccgggtcatgagg 108
|||||||
Sbjct: 4043 gaccagatgagagtgcccgcatctccagcgcttcttccgctgttccgtgtcatgagg 4102

Query: 109 ttgatcaagctgctgagccgcgcgagggcggtgcgcacgctgctccggaccttcatcaag 168
|||||||
Sbjct: 4103 ctgatcaagctgctgagccgggcagaaggagtgcaaccctcctgtggacgttcatcaag 4162

Query: 169 tccttccaggccctgccctacgtggctctgctcatcgctcatgctcttcttcatctatgct 228
|||||||
Sbjct: 4163 tccttccaggccctaccctacgtggctctgctcatcgctcatgctcttcttcatctacgct 4222

Query: 229 gtcacgcgcatgcagatgtttgggaagatcgccatggtggacggaaccagataaaccgg 288
|||||||
Sbjct: 4223 gtcacgcgcatgcagatgtttgggaagatcgccatggtggatgggacccaaataaaccgg 4282

Query: 289 aacaacaatttccagaccttccctcaggctgtgctgctgctcttccagggtgcgccacgggt 348
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Sbjct: 4283 aacaacaacttccagaccttcccaagctgtgctactgctcttccagggtgtgcaacagggt 4342

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgcgaccccgagtca 408
|||||||
Sbjct: 4343 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtca 4402

Query: 409 gactacctccctggggaggagtatacctgcggcaccgacttgcctactactacttcatc 468
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Sbjct: 4403 gactatgccccagggaggagtacacatgtggcaccacacttgcataactactacttcatc 4462

Query: 469 agcttctacatgctctgtgccttccctgatcatcaacctcttgggtgtgatcatggac 528
|||||||
Sbjct: 4463 agcttctacatgctctgtgccttccctgatcatcaacctcttgggtgtgatcatggac 4522

Query: 529 aattttgactacctcaccg-ggactgggtcc 557
|||||
Sbjct: 4523 aattttgactacctcaccgggactgggtcc 4552

>ref|NM_000069.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S, subunit (CACNA1S), mRNA, Length = 6160

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcggcagcatcattgacgtcatcctcagtgagatcgac 48
|||||
Sbjct: 3787 ctgattgtcattggcagcatcattgatgtcatcctcagtgagatcgac 3834

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcccgcatctccagcgcttcttcgcgctgttccgggtcatgagg 108
|||||
Sbjct: 3892 gacccagatgagagtgcccgcatctccagcgcttcttcgcgctgttccggtgtcatgagg 3951

Query: 109 ttgatcaagctgctgagccgcgcgagggcgctgcgacgctgctccggaccttcatcaag 168
|||||
Sbjct: 3952 ctgatcaagctgctgagccgggcagaaggagtgcgaaccctcctgtggacgttcatcaag 4011

Query: 169 tccttcaggccctacgctggtctgctcatcgctcatgctcttcttcatctatgct 228
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Sbjct: 4012 tccttcaggccctacgctggtctgctcatcgctcatgctcttcttcatctacgct 4071

Query: 229 gtcacggcatgcagatgtttgggaagatcgccatgggtggacggaacccagataaaaccgg 288
|||||
Sbjct: 4072 gtcacggcatgcagatgtttgggaagatcgccatgggtggatgggacccaaataaaaccgg 4131

Query: 289 aacaacaatttccagaccttcctcaggctgtgctgctgctcttcagggtgcgccacgggt 348
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Sbjct: 4132 aacaacaacttccagaccttcacacaagctgtgctactgctcttcagggtgtgcaacagggt 4191

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgacgaccccgagtca 408
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Sbjct: 4192 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtgc 4251

Query: 409 gactacctccctggggaggagtatacctgcgccacgacttcgcctactactacttcatc 468
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Sbjct: 4252 gactatgccccaggggaggagtacacatgtggcaccaacttgcatactactacttcatc 4311

Query: 469 agcttctacatgctctgtgccttctctgatcatcaacctctttgtggctgtgatcatggac 528
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Sbjct: 4312 agcttctacatgctctgtgccttctctggatcatcaacctctttgtggctgtgatcatggac 4371

Query: 529 aattttgactacctcacc-cggactgggtcc 557
|||||
Sbjct: 4372 aattttgactacctcaccgggactgggtcc 4401

>gb|L33798.1|HUMCACNLA Human dihydropyridine-sensitive L-type calcium channel
alpha-1 subunit (CACNL1A3) mRNA, complete cds, Length = 6160

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcggcagcatcattgacgtcatcctcagtgagatcgac 48
|||||
Sbjct: 3787 ctgattgtcattggcagcatcattgatgtcatcctcagtgagatcgac 3834

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcgcgcatctccagcgcttcttccgctgttccgggtcatgagg 108
|||||
Sbjct: 3892 gacccagatgagagtgcgcgcatctccagcgcttcttccgctgttccggtgtcatgagg 3951

Query: 109 ttgatcaagctgctgagccgcgccgagggcggtgcgcacgctgctccggaccttcatcaag 168
|||||
Sbjct: 3952 ctgatcaagctgctgagccgggcagaaggagtgcaaacctcctgtggacgttcatcaag 4011

Query: 169 tccttcaggccctgcctacgtggctctgctcatcgatgctcttcttcatctatgct 228
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Sbjct: 4012 tccttcaggccctaccctacgtggctctgctcatcgatgctcttcttcatctacgct 4071

Query: 229 gtcacggcatgcagatgtttgggaagatcgccatgggtggacggaaccagataaaccgg 288
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Sbjct: 4072 gtcacggcatgcagatgtttgggaagatcgccctgggtggatgggacccaaataaaccgg 4131

Query: 289 aacaacaatttcagaccttccctcaggctgtgctgctgctcttcagggtgcgccacgggt 348
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Sbjct: 4132 aacaacaacttcagaccttcccaagctgtgctgctgctcttcagggtgtgcaacagggt 4191

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgacgaccccgagtca 408
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Sbjct: 4192 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtcg 4251

Applicant(s): Malouf et al.
Attorney Docket No.: 421/29/2

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Query: 409 gactacctccctgggaggagtatacctgcggcaccgacttcgcctactactattcatc 468
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Sbjct: 4252 gactatgcccccagggaggagtacacatgtggcaccaactttgcatactactactattcatc 4311
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Query: 469  agcttctacatgctctgtgccttcctgatcatcaacctctttgtggctgtgatcatggac 528
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Sbjct: 4312  agcttctacatgctctgtgccttcctggtcatcaacctctttgtggctgtcatcatggac 4371

```

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Query: 529      aattttgactacctcaccc-ggactggtcc 557
                |||
Sbjct: 4372     aattttgactacctcacccgggactggtcc 4401

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Figure 4

>ref|XM_001910.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S subunit (CACNA1S), mRNA, Length = 6615

Score = 107 bits (54), Expect = 5e-21
Identities = 63/66 (95%)
Strand = Plus / Plus

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Sbjct: 3920 tggaaatgtgtttgacttcctgattgtcattggcagcatcattgatgtcatcctcagtga 3979

Query: 61 atcgac 66
 |||||
Sbjct: 3980 atcgac 3985

Score = 507 bits (256), Expect = e-141
Identities = 388/432 (89%)
Strand = Plus / Plus

Query: 67 gaccccgacgagagtgcccgcatctcagcgccttcttcgcctgttcggggtcatgagg 126
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Sbjct: 4043 gacccagatgagagtgcccgcatctcagcgccttcttcgcctgttcggggtcatgagg 4102

Query: 127 ttgatcaagctgctgagccgcccaggggcggtgcgcacgctgctctggaccttcatcaag 186
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Query: 247 gtcatcggcatgcagatgtttgggaagatcgccatggtggacggaacccagataaaccgg 306
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Query: 307 aacaacaatttccagaccttccctcaggctgtgctgctgctcttcagggtgcgccacgggt 366
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Query: 367 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgcgaccccgagtca 426
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Query: 427 gactacctccctggggaggagtatacctgcggcaccgacttcgcctactactacttcac 486
 |||||
Sbjct: 4403 gactatgccccagggaggagtacacatgtggcaccactttgcatactactacttcac 4462

Applicant(s): Malouf et al.
Attorney Docket No.: 421/29/2

Figure 5

>ref|XM_003238.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1D subunit (CACNA1D), mRNA, Length = 7362

Score = 89.7 bits (45), Expect = 1e-15
Identities = 45/45 (100%)
Strand = Plus / Plus

Query: 1 ctcacgtaatcggcagcattatagacgtggccctcagcgaagca 45
|||||
Sbjct: 4171 ctcacgtaatcggcagcattatagacgtggccctcagcgaagca 4215

Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

Query: 49 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcga 108
|||||
Sbjct: 4264 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcga 4323

Query: 109 ttggtgaagcttctcagcagggggaaggcatccggacattgctgtggacttttattaag 168
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Sbjct: 4324 ttggtgaagcttctcagcagggggaaggcatccggacattgctgtggacttttattaag 4383

Query: 169 tcctttcaggcgctcccgtatgtggccctcctcatagccatgctgttcttcatctatgcg 228
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Sbjct: 4384 tcctttcaggcgctcccgtatgtggccctcctcatagccatgctgttcttcatctatgcg 4443

Query: 229 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 288
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Sbjct: 4444 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 4503

Query: 289 aacaataacttccagacgtttccccaggcggtgctgctgctcttcagggtgtgcaacaggt 348
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Query: 349 gaggcctggcaggagatcatgctggcctgtctcccagggaagctctgtgaccctgagtca 408
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Sbjct: 4564 gaggcctggcaggagatcatgctggcctgtctcccagggaagctctgtgaccctgagtca 4623

Query: 409 gattacaacctcggggaggagtatacatgtgggagcaactttgccattgtctatttcatc 468
|||||
Sbjct: 4624 gattacaaccccgaggaggagtatacatgtgggagcaactttgccattgtctatttcatc 4683

Query: 469 agnttttacatgctctgtgcattttctga-catcaatctgttttggtggctgtcatcatgga 527
|||
Sbjct: 4684 agnttttacatgctctgtgcattttctgatcatcaatctgttt-gtggctgtcatcatgga 4742

Title: Purified and Isolated Platelet Calcium Channel Nucleic
Acids and Polypeptides and Therapeutic and Screening
Methods Using Same

Applicant(s): Malouf et al.

Attorney Docket No.: 421/29/2

Query: 528 taatttcgactatctgaccc 547
|||||
Sbjct: 4743 taatttcgactatctgaccc 4762

>ref|NM_000720.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1D subunit (CACNA1D), mRNA, Length = 7193

Score = 87.7 bits (44), Expect = 5e-15
Identities = 44/44 (100%)
Strand = Plus / Plus

Query: 1 ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 44
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Sbjct: 4001 ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 4044

Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

Query: 49 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcga 108
|||||
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Query: 109 ttgggtgaagcttctcagcaggggggaaggcatccggacattgctgtggacttttattaag 168
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Sbjct: 4334 aacaataacttccagacgtttcccaggcggtgctgctcttccaggtgtgcaacaggt 4393

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Query: 528   taatttcgactatctgaccc 547
            |||||
Sbjct: 4573  taatttcgactatctgaccc 4592
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>gb|M83566.1|HUMCACH1A Human neuroendocrine/beta-cell-type calcium channel alpha-1 subunit mRNA, complete cds, Length = 7193

Score = 87.7 bits (44), Expect = 5e-15
Identities = 44/44 (100%)
Strand = Plus / Plus

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Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

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 Sbjct: 4094 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgaagtgatgcga 4153

Query: 109 ttggtgaagcttctcagcaggggggaagcatccggacattgctgtggacttttattaag 168
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 Sbjct: 4154 ttggtgaagcttctcagcaggggggaagcatccggacattgctgtggacttttattaag 4213

Query: 169 tcctttcaggcgctcccgatgtggccctcctcatagccatgctgttcttcatctatgcg 228
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Query: 229 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 288
 |||
 Sbjct: 4274 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 4333

Query: 289 aacaataacttccagacgtttcccaggcggtgctgctgctcttcaggtgtgcaacaggt 348
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Sbjct: 4394 gaggcctggcaggagatcatgctggcctgtctcccaggaagctctgtgaccctgagtca 4453

Title: Purified and Isolated Platelet Calcium Channel Nucleic
Acids and Polypeptides and Therapeutic and Screening
Methods Using Same
Applicant(s): Malouf et al.
Attorney Docket No.: 421/29/2

Query: 409 gattacaacctcgggaggagtatacatgtgggagcaactttgccattgtctatttcac 468
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Query: 469 agnttttacatgctctgtgcatttctga-catcaatctgtttgggtggctgtcatcatgga 527
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Sbjct: 4514 agtttttacatgctctgtgcatttctgatcatcaatctgttt-gtggctgtcatcatgga 4572

Query: 528 taatttcgactatctgaccc 547
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Sbjct: 4573 taatttcgactatctgaccc 4592